



Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Modified Estimate

Name of Work: Improvements to CC roads 10th,11th,12th Cross roads at Ravindra Nagar in Ward No.13 in Shettyhalli Sub-division

Est cost:- 40.00 lakhs

SI No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	Earthwork excavation by manual means in ordinary soil involving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification (Page No.142, Item No.19.4 KPWD 2016-17)								
	10th Cross b/w 4th Main and 3rd main		1	30.00	1.00	0.45	13.50		
			1	30.00	1.00	0.45	13.50		
			1	34.00	1.00	0.45	15.30		
	11th Cross b/w 4th Main and 3rd main		1	30.00	1.00	0.45	13.50		
			1	30.00	1.00	0.45	13.50		
			1	30.00	1.00	0.45	13.50		
			1	9.80	1.00	0.45	4.41		
	12th Cross from 4th Main to 3rd main		1	30.00	4.05	0.45	54.68		
			1	30.00	3.75	0.45	50.63		
			1	30.00	4.05	0.45	54.68		
			1	13.00	4.70	0.45	27.50		
	10th cross E/s (for drain		1	30.00	1.00	1.00	30.00		
			1	30.00	1.00	1.00	30.00		
			1	34.00	1.00	1.00	34.00		
	10th cross W/s		1	30.00	1.00	1.00	30.00		
			1	30.00	1.00	1.00	30.00		
			1	34.00	1.00	1.00	34.00		
	16th cross drain		1	30.00	1.00	1.00	30.00		
	<i>Sch. qty = 469.26</i>		1	30.00	1.00	1.00	30.00		
	<i>qty upto 12th = 554.68</i>		1	32.00	1.00	1.00	32.00		
		Cum					554.68	182.07	100990.59
2	Construction Of granular sub -base by providing coarse graded crushed stone aggregates of granite / trap / basalt material spreading in uniform layers with motor grader on prepared surface,mixing by mix in place method with rotavator at OMC,and compacting with vibratory roller to achive the desired density. complete as per specification. By mix in place method for Grading II Material (Page No.156, Item No.20.6.2 KPWD 2016-17)								
	10th Cross b/w 4th Main and 3rd main		1	30.00	1.00	0.15	4.50		
			1	30.00	1.00	0.15	4.50		
			1	34.00	1.00	0.15	5.10		
	11th Cross b/w 4th Main and 3rd main		1	30.00	1.00	0.15	4.50		
			1	30.00	1.00	0.15	4.50		

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		1	30.00	1.00	0.15	4.50		
		1	9.80	1.00	0.15	1.47		
	12th Cross from 4th Main to 3rd main	1	30.00	4.05	0.15	18.23		
		1	30.00	3.75	0.15	16.88		
		1	30.00	4.05	0.15	18.23		
	<i>Sch. 742-156.4243</i>	1	13.00	4.70	0.15	9.17		
	Cum					91.56	1637.50	149929.50
3	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (Page No.12, Item No.4.3 KPWD 2016-17)							
	10th Cross b/w 4th Main and 3rd main	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	34.00	1.00	0.15	5.10		
	11th Cross b/w 4th Main and 3rd main	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	9.80	1.00	0.15	1.47		
	12th Cross from 4th Main to 3rd main	1	30.00	4.05	0.15	18.23		
		1	30.00	3.75	0.15	16.88		
		1	30.00	4.05	0.15	18.23		
		1	13.00	4.70	0.15	9.17		
	10th cross E/s (for drain	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	34.00	0.90	0.15	4.59		
	10th cross W/s	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	34.00	0.90	0.15	4.59		
	16th cross drain	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
	<i>Sch. 942-156.4243</i>	1	32.00	0.90	0.15	4.32		
	Cum					129.36	5338.04	690528.85
4	<i>Extra Item</i> Providing and Laying plain reinforced cement concrete for side drains using m20 nominal mix concrete with OPC cement 300kgs. With 20mm and down size granite metal coarse aggregates @0.69cum and fine aggregates @0.43cum machine mixed, well compacted for walls and bottom including centring, shuttering, cost of materials, HOM of machineries. Complete Excluding cost of steel as per MORTH Specification no 1500, 1700, 2200. Wall And Bottom thickness 15cm (Page No.265, Item No.37.59.2 KPWD 2016-17)							
	10th cross E/s (for drain	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	34.00	0.90	0.15	4.59		
	10th cross W/s	1	30.00	0.90	0.15	4.05		

			1	30.00	0.90	0.15	4.05		
			1	34.00	0.90	0.15	4.59		
	16th cross		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	32.00	0.90	0.15	4.32		
	10th cross E/s (for drain		2	30.00	0.15	0.59	5.31		
			2	30.00	0.15	0.6	5.4		
			2	34.00	0.15	0.61	6.222		
	10th cross W/s		2	30.00	0.15	0.6	5.4		
			2	30.00	0.15	0.61	5.49		
			2	34.00	0.15	0.59	6.018		
			2	30.00	0.15	0.61	5.49		
			2	30.00	0.15	0.60	5.40		
			2	32.00	0.15	0.59	5.66		
		Cum					88.19	11415.31	1006761.59
	Basic Rate	10408.00							
	Area Weightage 6%	624.48							
	Sub Total	11032.48							
	Add T.P 3.47%	382.83							
	Total	11415.31							
5	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications.M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No.177, Item No.22.6.1 KPWD 2016-17)								
	10th Cross b/w 4th Main and 3rd main		1	30.00	5.10	0.15	22.95		
			1	30.00	4.90	0.15	22.05		
			1	34.00	5.15	0.15	26.27		
	11th Cross b/w 4th Main and 3rd main		1	30.00	4.20	0.15	18.90		
			1	30.00	3.70	0.15	16.65		
			1	30.00	3.80	0.15	17.10		
			1	9.80	3.70	0.15	5.44		
	12th Cross from 4th Main to 3rd main		1	30.00	4.05	0.15	18.23		
			1	30.00	3.75	0.15	16.88		
			1	30.00	4.05	0.15	18.23		
			1	13.00	4.70	0.15	9.17		
		Cum					191.84	6433.72	1234270.58

Sch-942 124.2872

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6	<i>Extra. Qty</i> Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (Page No.17, Item No.4.46.2 KPWD 2016-17)							
		Tonnes	88.19	x	60Kgs	5.29	66472.70	351749.60
	Basic Rate	60607.00						
	Area Weightage 6%	3636.42						
	Sub Total	64243.42						
	Add T.P 3.47%	2229.25						
	Total	66472.7						
7	Providing Groove Cutting for wudth of 5mm to 10mm and depth of 80mm - 100mm including cost of cutting machine, Genaretor and HOM of Machinery including cost of bleed coolant (Page No.178, Item No.22.8.1, KPWD 2016-17)							
		<i>4 hr</i>	5	5.20		26		
			4	5.00		20		
			3	4.50		13.5		
			3	4.00		12		
			4	4.00		16		
			3	4.00		12		
			4	3.80		15.2		
	<i>Sch. 942 271.50 4 hr</i>		3	5.00		15		
	Rmt					129.7	126.13	16359.06
8	Providing & laying reinforced cement precast slabs of mix CC 1:1 1/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specifications.							
	10th cross E/s (for drain		1	30.00	0.75	22.50		
			1	30.00	0.75	22.50		
			1	32.00	0.75	24.00		
	10th cross W/s		1	30.00	0.90	27.00		
			1	30.00	0.90	27.00		
			1	33.00	0.90	29.70		
	16th cross W/s		1	30.00	0.75	22.50		
			1	30.00	0.75	22.50		
			1	32.00	0.75	24.00		
	<i>Data Rate. 1680 / m²</i>					221.70	1756.92	389509.16
	<i>7p. 3.47% = 58.30</i>	Sqm					<i>1738.30 / m²</i>	<i>335381.41</i>
	<i>Alu</i>							
	<i>1738.30 / m²</i>							

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9	Miscellaneous and unforeseen Charges								59901.06
								Total	4000000.00
(Rupees Fourty Lakhs Only)									

Certificate:-

1. The work spot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.


Asst Engineer
Ward No-13
BBMP


Asst Executive Engineer
Shettyhalli Sub-Division
BBMP


Executive Engineer
Dasarahalli Zone
BBMP

ನಂ. BBMP/CE/DE/JS/ಆಯೋಜನೆ : 16/01/2019

ರೂ. Rs. 39.35 lakhs only
(Rs. Thirty nine lakhs thirty five thousand)

ಗಣಿ ಅಂಕಾಚು ಪಚ್ಚಿ ತಾಂತ್ರಿಕ ಮಹಜಾರಾತಿ ನೀಡಿದೆ.

 ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಬಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.